
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=7; day=19; hr=10; min=51; sec=33; ms=7;]

Reviewer Comments:

<210> 54

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> polylysine sequence

<400> 54

As an explanation of "<213> Artificial Sequence", the above <223> response needs more inforamtion regarding the source of the genetic material: it is obvious that this is a polylysine sequence. Same in the <223> response in Sequence 62.

<160> 50

<210> 62

<211> 27

<212> DNA

<213> Artificial Sequence

Although the above <160> response is "50", there are 62 sequences in the submitted file.

Validated By CRFValidator v 1.0.3

Application No: 10559758 Version No: 2.0

Input Set:

Output Set:

Started: 2010-07-16 13:05:09.442

Finished: 2010-07-16 13:05:13.391

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 949 ms

Total Warnings: 62

Total Errors: 2

No. of SeqIDs Defined: 50

Actual SeqID Count: 62

Error code		Error Description								
E	287	Invalid WIPO	ST.2 date	e forma	at;	Use (Y	YYY-	-MM-D	D)	in <141>
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial o	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial o	C Unknown	found	in	<213>	in	SEQ	ID	(19)

Input Set:

Output Set:

Started: 2010-07-16 13:05:09.442

Finished: 2010-07-16 13:05:13.391

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 949 ms

Total Warnings: 62

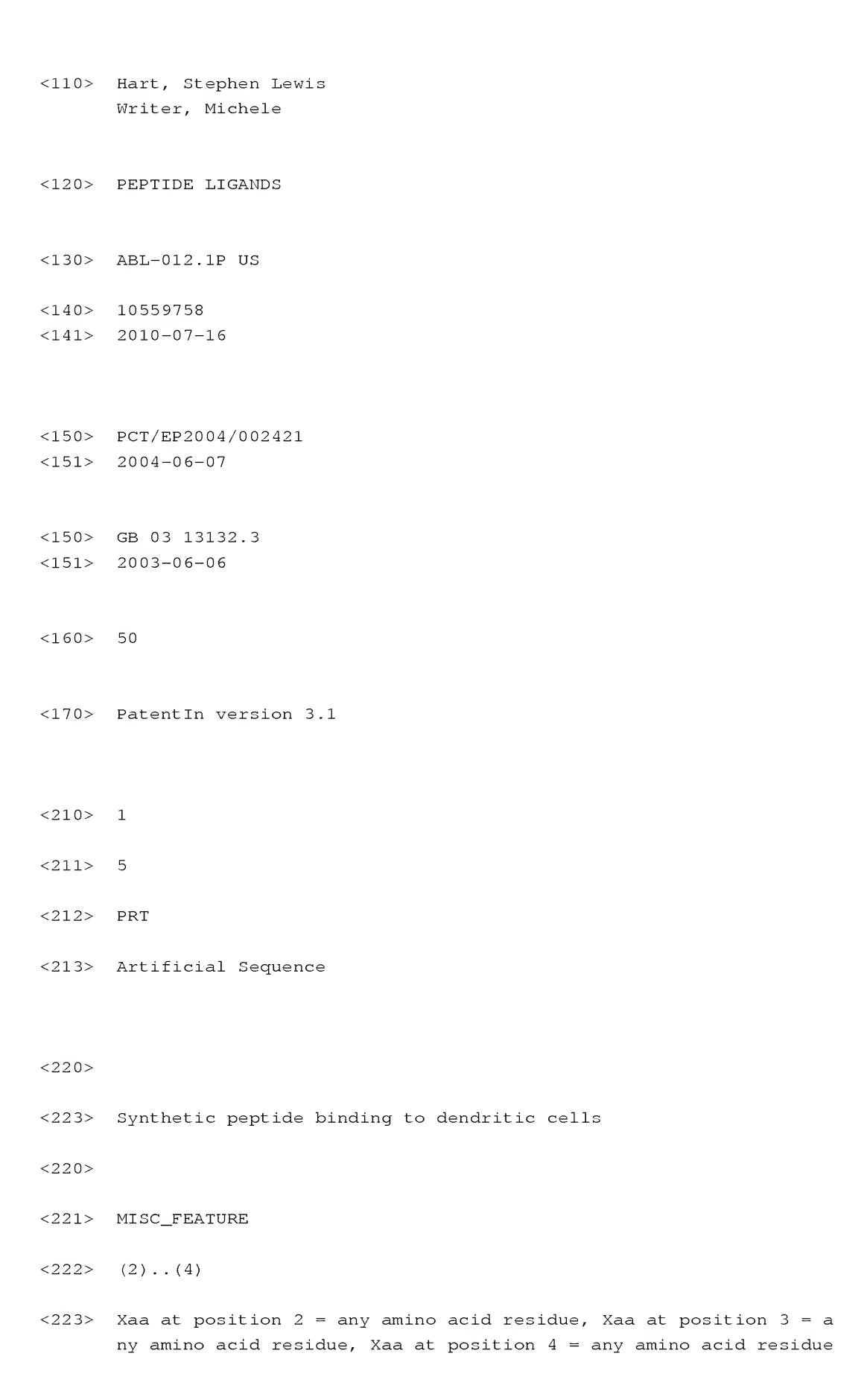
Total Errors: 2

No. of SeqIDs Defined: 50

Actual SeqID Count: 62

Error code	Error Description						
W 213	Artificial or Unknown found in <213> in SEQ ID (20) This error has occured more than 20 times, will not be displayed						
E 252	Calc# of Seg. differs from actual: 50 segIds defined: count=62						

SEQUENCE LISTING



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Pro Xaa Xaa Xaa Thr
<210> 2
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa at position 3 = any amino acid residue
<400> 2
Pro Ser Xaa Ser
<210> 3
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(4)
```

<223> Xaa at position 2 = any amino acid, Xaa at position 3 = any amino

acid having an amide side chain, Xaa at position 4 = any amino a cid

```
<400> 3
Gln Xaa Xaa Gln
               5
1
<210> 4
<211> 3
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 = any amino acid residue having an aliphatic si
      de chain
<400> 4
Ser Xaa Ser
1
<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence
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       Synthetic peptide binding to dendritic cells
<223>
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<220>

```
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<222> (2)..(2)
<223> Xaa at position 2 = any amino acid residue
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<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
<400> 5
Pro Xaa Leu Xaa Thr
<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
       Synthetic peptide binding to dendritic cells
<223>
<400> 6
Pro Ala Leu Lys Thr
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<210> 7
<211> 5
<212> PRT
<213> Artificial Sequence
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<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
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Pro Xaa Asn Xaa Thr
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<212> PRT
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<223> Synthetic peptide binding to dendritic cells
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Pro Ser Asn Ser Thr
<210> 9
<211> 5
<212> PRT
<213> Artificial Sequence
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Synthetic peptide binding to dendritic cells

<223>

```
<223>
       Synthetic peptide binding to dendritic cells
<400> 9
Pro Pro Asn Thr Thr
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<210> 10
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<212> PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(4)
<223> Xaa at position 2 = any amino acid residue, Xaa at position 3 = an
      y amino acid residue, Xaa at position 4 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 = any amino acid resdue
<400> 10
Pro Xaa Xaa Thr Xaa
1
<210> 11
<211> 6
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<220>

<212> PRT

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<223>
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<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 = any amino acid residue
<400> 11
Pro Xaa Leu Xaa Thr Xaa
<210> 12
<211> 6
<212> PRT
<213> Artificial Sequence
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<213> Artificial Sequence

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<223>
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<220>
<221> MISC_FEATURE
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<223> Xaa at position 2 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 = any amino acid residue
<400> 12
Pro Xaa Asn Xaa Thr Xaa
1
<210> 13
<211> 6
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
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<222> (1)..(1)

```
<223> Xaa at position 1 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (3)..(5)
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      ny amino acid residue, Xaa at position 5 = any amino acid residue
<400> 13
Xaa Pro Xaa Xaa Xaa Thr
1
<210> 14
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
      Synthetic peptide binding to dendritic cells
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<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa at position 1 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (3)..(5)
<223> Xaa at position 3 = any amino acid residue, Xaa at position 4 = a
```

ny amino acid residue, Xaa at position 5 = any amino acid residue

```
<220>
<221> MISC_FEATURE
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<223> Xaa at position 7 = any amino acid residue
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1
<210> 15
<211> 7
<212> PRT
<213> Artificial Sequence
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<400> 15
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1
<210> 16
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 16
Ser Pro Ala Leu Lys Thr Val
1
```

```
<211> 7
<212> PRT
<213> Artificial Sequence
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<223> Synthetic peptide binding to dendritic cells
<400> 17
Ser Thr Pro Pro Asn Thr Thr
1
<210> 18
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 18
Pro Ser Asn Ser
1
<210> 19
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 19
Pro Ser Leu Ser
```

1

```
<210> 20
<211> 5
<212> PRT
<213> Artificial Sequence
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<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa at position 1 = Ala or Lys
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
<400> 20
Xaa Pro Ser Xaa Ser
1
<210> 21
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
```

<400> 21

```
Ala Pro Ser Asn Ser
<210> 22
<211> 5
<212> PRT
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<220>
<223> Synthetic peptide binding to dendritic cells
<400> 22
Leu Pro Ser Leu Ser
1
<210> 23
<211> 6
<212> PRT
<213> Artificial Sequence
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<223> Synthetic peptide binding to dendritic cells
<400> 23
Met Leu Pro Ser Leu Ser
1
<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence
```

```
<400> 24
Pro Met Leu Pro Ser Leu Ser
<210> 25
<211> 7
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<223> Synthetic peptide binding to dendritic cells
<400> 25
Ser Gln Lys Asn Pro Gln Met
1
<210> 26
<211> 7
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<223> Synthetic peptide binding to dendritic cells
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Phe Gln Ser Gln Tyr Gln Lys
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<210> 27
<211> 7
<212> PRT
<213> Artificial Sequence
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<223> Synthetic peptide binding to dendritic cells

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<220>
<223> Synthetic peptide binding to dendritic cells
<400> 27
Met Ala Ser Ile Ser Met Lys
1
               5
<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 28
Asp Trp Trp His Thr Ser Ala
1
<210> 29
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 29
Ser His Val Lys Leu Asn Ser
1
<210> 30
<211> 7
<212> PRT
```

```
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 30
Gln Leu Leu Thr Gly Ala Ser
1
<210> 31
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 31
Thr Ala Arg Asp Tyr Arg Leu
1
<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 32
Phe Pro Arg Ala Pro His His
               5
1
<210> 33
```

<211> 7

<213> Artificial Sequence

```
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 33
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1
<210> 34
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 34
Ile Gly Gly Ile Arg Arg His
<210> 35
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<400> 35
Tyr Thr Met Glu Phe Asn Arg
1
```

```
<211> 7
<212> PRT
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<220>
<223> Synthetic peptide binding to dendritic cells
<400> 36
Pro Ala Ala Tyr Lys Ala His
1
<210> 37
<211> 6
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
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<222> (2)..(4)
<223> Xaa at position 2 = any amino acid residue, Xaa at position 3 = a
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<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 = Ala or Val
```

<210> 36

```
Pro Xaa Xaa Thr Xaa
<210> 38
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 = any amino acid residue,
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue,
<400> 38
Pro Xaa Asn Xaa Thr
1
<210> 39
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
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<223> Synthetic peptide binding to dendritic cells

```
<221> MISC_FEATURE
<222> (2)..(4)
<223> Xaa at position 2 = any amino acid residue, Xaa at position 3 = A
      sn or Leu, Xaa at position 4 = any amino acid residue
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Pro Xaa Xaa Xaa Thr
1
<210> 40
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 = any amino acid residue
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position = Thr or Ser
<400> 40
```

<220>

Pro Xaa Asn Xaa Thr

1

```
<210> 41
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa at position 1 = Ala or Leu
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa at position 4 = any amino acid residue
<400> 41
Xaa Pro Ser Xaa Ser
1
<210> 42
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
```

<220>

```
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<222> (2)..(4)
<223> Xaa at position 2 = any amino acid residue, Xaa at position 3 = A
      sn or Gln, Xaa at position 3 = any amino acid residue
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Gln Xaa Xaa Gln
1
<210> 43
<211> 3
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic peptide binding to dendritic cells
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 = Leu or Ile
<400> 43
Ser Xaa Ser
1
<210> 44
<211> 28
<212> PRT
<213> Artificial Sequence
```

```
<400> 44
1
                       10
                                    15
Gly Ala Cys Ser His Val Lys Leu Asn Ser Cys Gly
                    25
       20
<210> 45
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Peptide derivative of the invention
<400> 45
1
                       10
                                    15
Gly Ala Cys Ala Pro Ser Asn Ser Thr Ala Cys Gly
       20
                    25
<210> 46
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Peptide derivative of the invention
<400> 46
1
                       10
                                    15
```

Gly Ala Cys Met Ala Ser Ile Ser Met Lys Cys Gly

<223> Peptide derivative of the invention

20 25

<210> 47
<211> 28
<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide derivative of the invention

<400> 47

Gly Ala Cys Phe Pro Arg Ala Pro His His Cys Gly
20 25

<210> 48

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide derivative of the invention

<400> 48

Gly Ala Cys Asp Trp Trp His Thr Ser Ala Cys Gly
20 25

<210> 49

<211> 28

<212> PRT

```
<220>
<223> Peptide derivative of the invention
<400> 49
10
                                         15
1
Gly Ala Cys Arg Glu Thr Ala Trp Ala Cys Gly
         20
                       25
<210> 50
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Peptide derivative of the invention
<400> 50
1
                          10
                                         15
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         20
                       25
<210>
     51
<211>
     27
<212> PRT
<213> Artificial Sequence
<220>
<223> Peptide derivative of the invention
<400> 51
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<213> Artificial Sequence

1

10

15

20 25

```
<210> 52
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Peptide derivative of the invention
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1
                           10
                                           15
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         20
                        25
<210> 53
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> integrin-binding peptide
<400> 53
Arg Arg Glu Thr Glu Trp Ala
<210> 54
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> polylysine sequence
<400> 54
1
                           10
                                           15
<210> 55
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
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<223> hydrophobic spacer sequence

```
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> x = epsilon-amino hexanoic acid residue

<220>
<221> MISC_FEATURE
<222> (3)..(3)
```

<223> x = epsilon-amino hexanoic acid residue